

What is claimed is:

1. A method for adjusting the depth of modulation of a video signal, comprising:

- (a) detecting a comparison portion of said video signal, said comparison portion having an associated amplitude;
- (b) normalizing the comparison portion amplitude according to a reference level;
- (c) detecting a reference portion of said video signal having an amplitude at the reference level in said video signal;
- (d) generating a first error signal corresponding to a difference between the normalized comparison portion amplitude and the reference portion amplitude;
- (e) adjusting a depth of modulation of said video signal in response to said first error signal; and
- (f) periodically repeating steps (a) through (e).

2. The method of claim 1, wherein:

said reference portion is a reference pulse which is positioned within a sync pulse of said video signal.

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7. The method of claim 1, wherein said comparison portion is an attenuated sync pulse tip, further comprising:

said first error signal is converted to a first adjustment signal, and

11. The method of claim 8, wherein:

said comparison portion is a sync pulse tip.

said reference portion is used as an inversion level pulse for the video signal.

said comparison portion is a blanking portion of the video signal.

said reference portion is a 50% video level.

said comparison portion is a sync pulse tip.

said reference portion is a blanking portion of the video signal.

17. An automated modulation method for processing a plurality of video signals in accordance with the steps of claim 1, comprising:

providing a corresponding modulation depth control signal for each video signal in accordance with the respective first adjustment signal.

19. A method for adjusting the RF carrier level of a video signal, comprising:

(b) providing an RF carrier reference level corresponding to an RF carrier of said video signal;

(d) adjusting an amplitude of said RF carrier in response to said error signal; and

20. The method of claim 19, wherein step (d) comprises:

converting said error signal to an adjustment signal; and

providing a corresponding RF amplitude control signal from a charge pump responsive to said adjustment signal.

21. An automated method for processing a plurality of video signals in accordance with the steps of claim 19, wherein step (e) is performed on a rotating basis among said plurality of video signals.

22. An automated method for processing a plurality of video signals in accordance with the steps of claim 19, comprising:

converting the error signal for each of said plurality of video signals to corresponding adjustment signals in a time sharing manner; and

providing a corresponding RF carrier level control signal for each video signal in accordance with the respective adjustment signal.

23. The method of claim 19, wherein:
said comparison portion is a sync pulse tip.

24. The method of claim 19, wherein:
said comparison portion is a blanking level of the video signal.

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25. The method of claim 19, wherein:
said RF carrier reference level is a 50% video
level.

26. The method of claim 19, wherein:
said RF carrier reference level is a blanking
level of the video signal.

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